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<110> Liu, Qingyun
McDonald, Terrence P.

<120> DNA MOLECULES ENCODING HG51, A
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<140> 09/831,765

<141> 2001-05-11

<150> PCT/US99/27305

<151> 1999-11-18

<150> 60/109,717

<151> 1998-11-24

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<212> DNA

<213> Homo sapien (human)

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<213> Homo sapien (human)

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 35 40 45
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Val Leu Val
 50 55 60
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu
 65 70 75 80
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr
 85 90 95
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val
 100 105 110
 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser
 115 120 125
 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val
 130 135 140
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr
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 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp
 165 170 175
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp
 180 185 190
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Leu
 195 200 205
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His
 210 215 220
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr
 225 230 235 240
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met
 245 250 255
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile
 260 265 270
 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro
 275 280 285
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr
 290 295 300
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu
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 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys
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 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met
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 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser
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 <213> Homo sapien (human)

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 Glu Pro Trp Gln Phe Ser Met Leu Ala Ala Tyr Met Phe Leu Leu Ile
 35 40 45
 Val Leu Gly Phe Pro Ile Asn Phe Leu Thr Leu Tyr Val Thr Val Gln
 50 55 60
 His Lys Lys Leu Arg Thr Pro Leu Asn Tyr Ile Leu Leu Asn Leu Ala
 65 70 75 80
 Val Ala Asp Leu Phe Met Val Leu Gly Gly Phe Thr Ser Thr Leu Tyr
 85 90 95
 Thr Ser Leu His Gly Tyr Phe Val Phe Gly Pro Thr Gly Cys Asn Leu
 100 105 110
 Glu Gly Phe Phe Ala Thr Leu Gly Gly Glu Ile Ala Leu Trp Ser Leu
 115 120 125
 Val Val Leu Ala Ile Glu Arg Tyr Val Val Val Cys Lys Pro Met Ser
 130 135 140
 Asn Phe Arg Phe Gly Glu Asn His Ala Ile Met Gly Val Ala Phe Thr
 145 150 155 160
 Trp Val Met Ala Leu Ala Cys Ala Ala Pro Pro Leu Ala Gly Trp Ser
 165 170 175
 Arg Tyr Ile Pro Glu Gly Leu Gln Cys Ser Cys Gly Ile Asp Tyr Tyr
 180 185 190
 Thr Leu Lys Pro Glu Val Asn Asn Glu Ser Phe Val Ile Tyr Met Phe
 195 200 205
 Val Val His Phe Thr Ile Pro Met Ile Ile Ile Phe Phe Cys Tyr Gly
 210 215 220
 Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Glu Ser
 225 230 235 240
 Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met Val Ile Ile
 245 250 255
 Met Val Ile Ala Phe Leu Ile Cys Trp Val Pro Tyr Ala Ser Val Ala
 260 265 270
 Phe Tyr Ile Phe Thr His Gln Gly Ser Asn Phe Gly Pro Ile Phe Met
 275 280 285
 Thr Ile Pro Ala Phe Phe Ala Lys Ser Ala Ala Ile Tyr Asn Pro Val
 290 295 300
 Ile Tyr Ile Met Met Asn Lys Gln Phe Arg Asn Cys Met Leu Thr Thr
 305 310 315 320
 Ile Cys Cys Gly Lys Asn Pro Leu Gly Asp Asp Glu Ala Ser Ala Thr
 325 330 335
 Val Ser Lys Thr Glu Thr Ser Gln Val Ala Pro Ala
 340 345